

## Claims

1. A vaccine for the therapeutic or prophylactic immunisation against Venezuelan Equine Encephalitis (VEE) virus, said vaccine comprising a vector which includes a sequence which encodes an attenuated form of said virus which is capable of producing a protective immune response, wherein the said sequence is such that the amino acid at position 7 in the E2 protein of VEE is lysine.
2. A vaccine according to claim 1 wherein the attenuated form of said virus comprises a derivative of the TC-83 construct.
3. A vaccine according to claim 2 wherein the vector comprises a virus vector.
4. A vaccine according to claim 3 wherein the virus is selected from an attenuated virus
5. A vaccine according to claim 3 or claim 4 wherein the virus is selected from vaccinia, adenovirus, HSV, BCG or BCC.
6. A vaccine according to claim 5 which comprises an attenuated vaccinia virus.
7. A vaccine according to claim 6 wherein expression of the said attenuated VEE virus is under the control of a synthetic 7.5K vaccinia promoter which has been subject to mutation which increases the level of VEE virus protein production as compared to the wild-type 7.5K promoter.
8. A vaccine according to claim 7 wherein the said 7.5K promoter comprises a sequence selected from
- TAAAAATTGAAAATACATTCTAATTTATTGCAC (SEQ ID No 2)
- or
- TAAAAATTGAAAATATATTCTAATTTATTGCAC (SEQ ID No 3).
9. A vaccine according to any one of the preceding claims which comprises a vector which includes a nucleotide sequence which encodes a further immunogenic peptide, and is able to express said sequence when administered to a mammal.

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